Installing the Natural Web Interface Server Extensions

This document describes how to install the Natural Web Interface Server Extensions for CGI Interface under the OS/390 Unix System Services.

The following topics are covered:

- Prerequisites
- Installation Tape
- Installation Procedure
- Further Steps

Prerequisites

Software

- OS/390 Operating System
  Version as specified under Operating/Teleprocessing Systems Required in the current Natural Release Notes.
- EntireX
  Version as specified under Natural and Other Software AG Products in the current Natural Release Notes.
- OS/390 Unix System Services with access to the OS/390 HFS (hierarchical file system).

Knowledge

Before you start installing Natural Web Interface Server Extensions under OS/390, it is important that you have a clear picture of the Natural Web Interface system architecture; see the Natural Web Interface documentation.

Installation Tape

The installation tape contains the datasets listed in the table below.

Dataset Name	Contents
NWW*nnn*.CPIO	Compressed NWW modules.

The notation *nnn* in dataset name represents the version number of the product.

Installation Procedure

Step 1: Copy the tape contents to disk

(Job I008, Step 0155)

If you are not using SMA:

Copy the job dataset NWW*nnn*.CPIO from tape to disk using the sample JCL below.

The following values must be supplied in the JCL:

1. In the dataset names, replace *nnn* with the current version number of the datasets.
2. With the SER parameter, replace *XXXXXX* with the volume serial number of the tape .
3. With the LABEL parameter, replace *x* with the sequential number of the tape dataset
   (see the **Report of Tape Creation**).
4. With the VOL=SER parameter, replace *YYYYYY* with the volume serial number of the disk pack.

```
// JOB CARD
//V2COPY EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//IN1 DD DSN=NWWnnn.CPIO,DISP=OLD,UNIT=TAPE,
// VOL=(,RETAIN,SER=XXXXXX),LABEL=(x,SL)
//OUT1 DD DSN=SAGLIB.NWWnnn.CPIO,DISP=(NEW,CATLG,DELETE),
// UNIT=SYSDA,VOL=SER=YYYYYY,SPACE=(CYL,(1,1,10))
//SYSIN DD *
C I=IN1,O=OUT1 /*
```

The dataset type and the space each dataset requires on disk are shown in the **Report of Tape Creation**.

Step 2: Create Directory File Structure in HFS

(Job I009, Step 0150)

Create the following directories in your OS/390 HFS (hierarchy file system):

```
$SAG/nat
  $SAG/nat/vnnn
```

The following is an example of how to do this:

```
cd $sag
  mkdir nat
  cd nat
  mkdir vnnn
```

The directory names must be in lower case.

nnn = Current version of natural

Step 3: Copy the dataset into your OS/390 HFS

(Job I009, Step 0155)

If you are not using SMA:

Copy the job dataset NWW*nnn*.CPIO from disk to HFS using the sample JCL below.

```
//PASS0155 EXEC PGM=IKJEFT01
  //SYSTSPRT DD DUMMY
  //JES  DD  SYSOUT=*,DCB=(RECFM=V,LRECL=256)
  //STDOUT  DD PATH='/tmp/out',
  //    PATHOPTS=(OCREAT,OTRUNC,OWRONLY),PATHMODE=SIRWXU
  //STDERR  DD PATH='/tmp/err',
  //    PATHOPTS=(OCREAT,OTRUNC,OWRONLY),PATHMODE=SIRWXU
  //SYSTSIN  DD *
    OPUT 'SAGLIB.NWWnnn.MVSCPIO' +
    '/u/nat/aze/products/sag/nat/vnnn/NWWvnnn.cpio.z' +
    BIN
  /*
```

Step 4: Uncompress the file on your OS/390 HFS

(Job I009, Step 0157)

If you are not using SMA:

Logon to your HFS and enter the following commands:

```
cd $sag/nat/vnnn
  uncompress NWWvnnn.cpio.z
  cpio -icvBd > NWWvnnn.cpio
```

Note:
If the message "EDC5139I Operation not permitted" occurs, it can be ignored.

Further Steps

For further information, refer to the Natural Web Interface documentation and proceed as described in the section Configuring the Natural Web Interface, paying particular attention to the notes given under the heading "In an OS/390 Unix System Services Environment".